

"SQ" NOTES
BY R.A.HILSMANN

Time to look back to some of the programs you have found here in the past, especially the LIBRARY and RECOVER program needs to be updated. "Haste makes waste", this has been a good demonstration of it.

But enough about that, lets do it. This month an update of the LIBRARY program, which as I mentioned last month, had a few features added to it since you have seen it in this column. In fact the changes are great enough to reprint the entire program ones more, and also the instructions to use it.

Next month I will review the RECOVER program, perhaps in its entirety, depending on the amount of changes I will make to it. Some of you have perhaps noted, it does not work with single sided drives, fact is it was written for quad-density drives, and its major feature is to rebuild the directory ones lost.

I feel this is important enough, since SDOS (Safe DOS) in its syntax does not ask for the drive number when the command "FORMAT/"name" is entered. Criticism? I hope it is not viewed that way since I think John Olier has done a fantastic job writing the DOS, just a suggestion, if space and time permits to perhaps change the syntax, at least for "FORMAT" to "FORMAT/2"name", which of course would make the user aware to specify the drive number when doing such a major task like formatting a disk, rather than expecting flaky computer users to do a "LET/D=2" before formatting, something easily forgotten.

I have managed to do this twice with an important disk in the other drive, but then I have been called flaky in the past, especially since I still use such an outdated computer as the 2068 Timex/Sinclair. Little do they know.

```
1 REM Fill this line with
    spaces for machine code
    to here 345678901234<
```

```
15 REM
*****
*   DISK LIBRARY PROGRAM   *
*   VERSION 1.4 (SDOS)    *
*   ©1988 IMPEX SOFTWARE  *
*   BY R.A. HILSMANN      *
*   FOR PUBLIC DOMAIN.    *
*****
```

```

20 CLEAR : LET A=NOT PI: DIM A
$(VAL "179",VAL "20"): DIM L$(VA
L "10"): DIM B$(VAL "32"): DIM C
$(VAL "608"): LET O=A: LET I=SGN
PI: DIM K$(VAL "6",VAL "5"): LE
T K$(I)="BASIC": LET K$(VAL "2")
="DATA#": LET K$(INT PI)="DATA$":
LET K$(VAL "4")="CODE ": LET K
$(VAL "5")="STATE": LET K$(VAL "
6")="URBLS": INK VAL "9": PAPER
I: BORDER I: LET E=PEEK VAL "236
35"+VAL "256"*PEEK VAL "23636"+V
AL "5"

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10 CLS : LET MENU=VAL "50": LE
T C=VAL "10": LET P=VAL "70": LE
T Q=VAL "80": LET R=VAL "100": G
O SUB P: LET F=0: PRINT TAB VAL
"6";"DISK LIBRARY PROGRAM" TAB V
AL "6";"©1988 IMPEX SOFTWARE""*
*****"
"/" "PRESS" "/" 1) TO CREATE A N
EW LIBRARY FILE" 2) TO LOAD AN
EXISTING FILE ": PRINT #0;"ENTE
R 1 OR 2": PAUSE 0: IF INKEY$="2
" THEN GO SUB P: INPUT "FROM WHI
CH DRIVE ARE YOU LOADINGENTER DR
IVE # (1 TO 4) >";K: CLS : GO TO
VAL "7040"

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```

40 GO SUB P: INPUT "HOW MANY F
ILES IN NEW DISK FILE?(800 MAX T
/5 - 900 MAX SINCLAIR) >";FL: DI
M E$(FL+I,VAL "27"): LET E$(I,T
O VAL "3")=STR$ I: GO SUB P: INP
UT "ENTER NAME OF NEW LIBRARY FI
LE"':D$: LET E$(I,VAL "4" TO VAL
"13")=D$: LET E$(I,VAL "14" TO
VAL "16")=STR$ FL

```

```

      50 GO SUB Q: GO SUB P: CLS : P
PRINT AT 0,6-INT (LEN D$/2);"DISK
  LIBRARY FILE ">;E$(I,VAL "4" TO
  VAL "13");AT I,0;"*****
*****"1) SEARCH
OR LIST Progr. & LOAD ""2) CHA
NGE DISK NAME (DISK&LIBR.)""3)
  ADD A DISK FILE. (TO LIBRARY)"
  ""4) DELETE DISK FILE (FROM LIBR
  .)""5) UPDATE A DISK FILE (LIB
  RARY)""6) SORT LIBRARY FILES (
  ALPHA)""7) LOAD OR SAVE LIBRAR
  Y DATA ""8) LIST LIBRARY FILES
  TO PRINTER"

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60 PRINT "9) CREATE NEW DISK
FROM FILES"

[illegible]

```

70 BEEP .08,35: RETURN
80 LET Y=VAL E$(I, TO INT PI)-
I: RETURN

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```
100 PRINT " ENTER ZERO (0) TO E  
XIT TO MENU"
```

": RETURN

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110 PRINT "DISK WILL BE CATALOG
ED NOW""PRESS ENTER WHEN PROMPT
ED TO ""SCROLL !"": RETURN
120 PRINT "INSERT DISK INTO""
APPROPRIATE DRIVE AND ""ENTER
DRIVE NUMBER BELOW"
130 PRINT AT 21,0;"DRIVE # (1 T
O 4) OR (0) TO EXIT ": RETURN
1000 GO SUB 0: CLS : GO SUB R: G
O SUB P: INPUT "ENTER NAME OF PR
OGRAM FOR SEARCH""OR PRESS ENT
ER FOR LISTING OF""ALL LIBRARY
FILES""SEARCH-NAME CAN BE P
ARTIAL, ""AS FOR ""PROGRAM"" =
""PROG""; AT VAL "15",0; F$: IF F
$=""0" THEN GO TO MENU
1010 IF F$="" THEN GO TO VAL "10
60"
1020 FOR /I TO Y: IF E$(A+I,I TO
LEN F$)=F$ THEN GO TO VAL "1040
"
1030 NEXT : CLS : GO SUB P: PRIN
T AT C,VAL "2";"PROGRAM CAN NOT
BE LOCATED""GO SUB R: PAUSE
0: GO TO MENU
1040 CLS : GO SUB P: GO SUB R: P
RINT AT VAL "5",0;"FILE > ";E$(A
+I, TO C)""ON DISK:";E$(A+I,VA
L "12" TO VAL "27")""TO LOAD
THE FILE FROM ABOVE""NAMED DIS
K, "; GO SUB VAL "120": INPUT K
: IF K>0 THEN LET A=A+I: GO TO V
AL "1220"
1050 GO TO MENU
1060 CLS : PRINT "1=PAGING * ENT
ER=LOAD *ZERO=EXITFILE-NAME TYP
E DISK-NAME""*****
*****""GO SUB 0: LET
F=Y+I: GO TO 1130
1070 LET G=3: LET H=1: FOR /S TO
J: PRINT AT G,0; INVERSE 1; OVE
R 1;B$: PAUSE 0: LET B=CODE INKE
Y$: IF B=13 THEN GO TO 1210
1080 IF B=48 THEN GO TO MENU
1090 IF B=49 THEN LET A=J+1: LET
K=K+380: GO SUB 1227: GO SUB 11
10: GO TO 1190
1100 PRINT AT G,0; INVERSE 0;B$:
GO SUB 1170: NEXT
1110 PRINT AT 3,0;C$: IF A>F THE
N RANDOMIZE USR E: GO TO 1130
1120 RETURN
1130 GO SUB P: LET S=2: LET J=1
1140 PAUSE 2: LET G=3: LET H=0:
IF F-S>=18 THEN LET J=J+19: GO T
O 1160
1150 LET J=F
1160 LET K=PEEK 23376+256*PEEK 2
3377: FOR /S TO J
1170 IF F THEN PRINT AT G,0;E$(A
, TO 10);TAB 11;K$(1+CODE E$(A,1
));TAB 17;E$(A,12 TO 26): LET G
=G+1: IF H THEN RETURN
1180 NEXT : GO SUB 1227: GO SUB
1070
1190 IF A-1<=F THEN LET S=A
1200 GO TO 1140
1210 GO SUB P: INPUT "INSERT DIS
K""ENTER DRIVE #"";K: IF K=0
THEN GO TO MENU
1220 LET /D=K-VAL "1": LET L$=E$
(A, TO C): GO TO VAL "1220"+CODE
E$(A,VAL "11")+I
1221 LOAD /L$: STOP
1222 LOAD /L$ DATA A(): STOP
1223 LOAD /L$ DATA E$(): STOP

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1224 LOAD /L$CODE : STOP
1225 LOAD /L$ABS
1226 LOAD /L$VAL : STOP
1227 POKE 23376,K-256*INT (K/256
): POKE 23377,INT (K/256): RETUR
N
1999 GO TO MENU
2000 CLS : GO SUB P: GO SUB R: P
RINT AT C,0; GO SUB VAL "120":
INPUT K: IF K=0 THEN GO TO MENU
2010 LET /D=K-I: GO SUB P: CLS :
PRINT AT C,0; GO SUB VAL "110"
: PAUSE A+R: CAT : RANDOMIZE USR
E: CLS : LET F$=A$(VAL "178", T
O VAL "16"): PRINT AT C,0;"OLD D
ISK NAME ";F$: INPUT "ENTER NEW
DISK NAME BELOW THEN ""PRESS E
NTER. (16 CHR$ MAX)"; AT VAL "6",
0;B$( TO VAL "16"): LET A$(VAL "
178", TO VAL "16")=B$( TO VAL "1
6"): RANDOMIZE USR (E+VAL "64")
2020 GO SUB 0: FOR /1 TO Y: IF E
$(A+1,12 TO 27)=F$ THEN LET E$(A
+1,12 TO 27)=B$
2030 NEXT
2100 LET B$="": GO TO MENU
3000 CLS : GO SUB P: GO SUB R: P
RINT "" TO ADD DISK TO THE LIB
RARY, ""GO SUB VAL "120": GO S
UB VAL "130": INPUT K: IF K=0 TH
EN GO TO MENU
3010 LET /D=K-I: CLS : PRINT AT
C,0; GO SUB VAL "110": PAUSE A+
R: CAT : LET F=USR E: GO SUB VAL
"3030": CLS : GO SUB P: GO SUB
R: PRINT AT VAL "8",0;"DISK TO B
E ADDED TO THE LIBRARY:"""DISK
NAME: ";A$(VAL "178")""FORMATED
TO ";CODE A$(VAL "179",I);" TRKS
,";CODE A$(VAL "179",I+I);" SID
ES""CAPACITY ";CODE A$(VAL "179
",INT PI)*VAL "5";" K""REMAININ
G DISK SPACE: ";CODE A$(VAL "179
",VAL "5")*VAL "5";" K""PRESS
ANY KEY TO ADD DISK TO THE DISK-
LIBRARY": PAUSE 0: IF INKEY$=""0"
THEN GO TO MENU
3020 FOR /Y TO Y+F-1: LET E$(A+1
, TO 11)=A$(A-Y+1, TO 11): LET E
$(A+1,12 TO 27)=A$(178): NEXT :
LET E$(I, TO INT PI)=STR$ A: GO
TO MENU
3030 IF F=0 THEN PRINT ""TAB VA
L "8";"NO FILES ON DISK""GO S
UB R: PAUSE 0: GO TO MENU
3040 GO SUB 0: LET Y=Y+I: FOR /2
TO Y: IF E$(A,12 TO 27)=A$(178,
TO 16) THEN CLS : PRINT AT C,0;
"DISK ALREADY PRESENT IN LIBRARY
""GO SUB R: PAUSE 0: GO TO ME
NU
3050 NEXT : RETURN
4000 CLS : GO SUB P: GO SUB R: L
ET B=0: INPUT "ENTER NAME OF DIS
K FILE TO BE DELETED FROM THE
DISK-LIBRARY""F$: IF F$=""0" T
HEN GO TO MENU
4010 CLS : PRINT AT C,0;"DELETIN
G DISK ";F$: GO SUB 0: FOR X=2 T
O Y+I
4020 IF E$(X,12 TO 11+LEN F$)=F$
THEN GO SUB VAL "4050": LET Y=Y
-I: LET E$(I, TO INT PI)=STR$ (Y
+I): GO TO VAL "4020"
4030 NEXT X: IF B THEN RETURN
4040 GO TO MENU

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4050 FOR /X TO Y+I: IF A=FL THEN
  IF E$(A,12 TO 12+LEN F$)=F$ THE
  N LET E$(A)="" : RETURN
4060 LET E$(A)=E$(A+1): NEXT : R
  ETURN
5000 CLS : GO SUB P: PRINT AT C,
  0;"TO UPDATE A DISK FILE IN THE"
  "DISK LIBRARY, "; GO SUB 120:
  INPUT K: IF K=0 THEN GO TO MENU
5010 LET /D=K-I: CLS : PRINT AT
  C,0; GO SUB VAL "110": PAUSE R+
  R: CAT : RANDOMIZE USR E: LET F$
  =A$(VAL "178", TO VAL "16"); GO
  SUB R: LET B=I: GO SUB VAL "4010
  ": CAT : LET F=USR E: LET Y=Y+I:
  LET E$(I, TO 3)=STR$ Y: GO TO V
  AL "3020"
6000 CLS : GO SUB R: GO SUB P: P
  RINT AT C,0;"SORTING""THIS MAY
  TAKE A WHILE (BASIC!!!)": GO SU
  B 0: LET S=I
6010 LET S=S+2: IF S<=Y+I THEN G
  O TO 6010
6020 LET S=INT (S/2): IF S=0 THE
  N GO TO MENU
6030 FOR /2 TO Y+1-S: LET K=A
6040 LET B=K+S: IF E$(K)<=E$(B)
  THEN GO TO 6060
6050 LET F$=E$(K): LET E$(K)=E$(
  B): LET E$(B)=F$: LET K=K-S: IF
  K>1 THEN GO TO 6040
6060 IF INKEY$="" THEN GO TO ME
  NU
6070 NEXT : GO TO 6020
7000 CLS : GO SUB P: GO SUB R: P
  RINT AT C,0;"TO OR FROM WHICH D
  RIVE ARE YOU""TAB INT PI;"SAVIN
  G OR LOADING DATA ?": INPUT "DRI
  VE # >";K: IF K=0 THEN GO TO MEN
  U
7010 LET /D=K-I: GO SUB P: PRINT
  "ENTER ""L"" FOR LOADING""
  ""S"" FOR SAVING": INPUT F$
  : IF F$="L" OR F$="l" THEN GO TO
  VAL "7040"
7020 CLS : GO SUB P: PRINT AT C,
  0;"DATA TO BE SAVED IS: ";E$(I,U
  AL "4" TO VAL "13")""DO YOU WIS
  H TO CHANGE THE NAME?": INPUT "(
  Y/N) ";F$: IF F$="Y" OR F$="y" T
  HEN GO SUB P: INPUT "ENTER NEW N
  AME ";E$(I,VAL "4" TO VAL "13")
7030 SAVE /E$(I,VAL "4" TO VAL "
  13") DATA E$(I): GO TO MENU
7040 LET /D=K-I: PRINT AT C,0;"E
  NTER NAME OF DATA TO BE LOADED"
  "OR TOKEN 'CAT' FOR CATALOG "
7045 GO SUB P: INPUT "NAME OR CA
  T ";D$: IF D$="CAT" THEN CAT :
  GO TO VAL "7045"
7050 LOAD /D$ DATA E$(I): LET FL=
  VAL E$(I,VAL "14" TO VAL "16"):
  GO TO MENU
8000 CLS : GO SUB P: GO SUB R: P
  RINT AT C,0;"ARE YOU LISTING TO
  A CENTRONIC""TYPE PRINTER ?? (
  Y/N)": PAUSE 0: IF INKEY$="" TH
  EN GO TO MENU
8010 IF INKEY$="Y" OR INKEY$="y"
  THEN GO TO VAL "8030"
8020 CLS : LET /P=T: GO SUB 0: F
  OR /2 TO Y+I: LPRINT E$(A, TO 10
  );TAB 11;K$(1+CODE E$(A,11));TAB
  17;E$(A,12 TO 26): NEXT : GO TO
  MENU
8030 REM PRINTER CODES HERE
  EPSON FX/RX + SKIP OVER
  PERFORATION

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8031 LET /P=0/G: OUT 127,27: OUT
  127,78: OUT 127,6
8040 CLS : GO SUB 0: FOR /2 TO Y
  +I: LPRINT TAB 2;E$(A, TO 10);TA
  B 14;K$(1+CODE E$(A,11));TAB 20;
  E$(A,12 TO 27);
8050 IF A<Y+I THEN LPRINT TAB 42
  ;E$(A+1, TO 10);TAB 54;K$(1+CODE
  E$(A+1,11));TAB 60;E$(A+1,12 TO
  27): LET A=A+1: NEXT
8060 GO TO MENU
9000 CLS : GO SUB P: GO SUB R: P
  RINT AT VAL "6",0;"THIS FEATURE
  REQUIRES TWO DRIVES""IF YOU N
  EED TO FORMAT A DISK,"": GO SUB
  VAL "120"
9010 PRINT AT VAL "19",0;"ENTER DISK TO BE FORMATTED"
  INPUT
  F$: IF F$="" THEN GO TO MENU
9020 IF F$="" THEN GO TO VAL "90
  50"
9030 CLS : GO SUB P: LET K=VAL F
  $: PRINT AT C,0;"DISK WILL BE FO
  RMATED NOW""DISK SHOULD BE IN
  DRIVE ";K: LET /D=K-I: INPUT "EN
  TER NAME FOR NEW DISK""F$
9040 CLS : GO SUB P: PRINT AT C,
  0;"IF DISK IS IN DRIVE ";FLASH
  I;K: FLASH 0;" THEN PRESS""ENT
  ER AND FORMATING WILL BEGIN": PA
  USE 0: FORMAT /F$: LET F=USR E
9050 CLS : GO SUB P: PRINT AT C,
  0;"MAKE SURE THE CORRECT DISKS A
  RE""IN THE CORRECT DRIVES BEFO
  RE""MOVING DATA FROM DISK TO D
  ISK,"": INPUT "ENTER DRIVE NUMBER
  FOR SOURCE DISKS (1 TO 4) ";B
  : GO SUB P: INPUT "ENTER DRIVE N
  UMBER FOR ""DESTINATION DISK (
  1 TO 4) ";S: LET S=S-I: CLS : PR
  INT AT C,0;"INSERT DESTINATION D
  ISK INTO""TAB C;"DRIVE ";S+I;"T
  AB INT PI;"PRESS ENTER WHEN READ
  Y,"": PAUSE 0: CLS : PRINT AT C
  ,0; GO SUB VAL "110": LET /D=S:
  PAUSE R+R: CAT : LET /D=B-I
9100 RANDOMIZE USR E: CLS : PRIN
  T "1=PAGING * ENTER=MOVE *ZERO=E
  XIT DISK SPACE, DEST. DRIVE >":
  GO SUB 9270: PRINT "*****
  *****": GO SUB 0:
  LET F=Y+I: GO TO VAL "9170"
9110 LET G=3: LET H=1: FOR /T TO
  J: PRINT AT G,0; INVERSE 1; OVE
  R 1;B$: PAUSE 0: LET U=CODE INKE
  Y$: IF U=13 THEN GO SUB VAL "925
  0": GO SUB VAL "9270"
9120 IF U=48 THEN GO TO MENU
9130 IF U=49 THEN LET A=J+1: LET
  K=K+360: GO SUB 9260: GO SUB 91
  50: GO TO 9230
9140 PRINT AT G,0; INVERSE 0;B$:
  GO SUB 9210: NEXT
9150 PRINT AT 3,0;C$: IF A>F THE
  N RANDOMIZE USR E: GO TO 9170
9160 RETURN
9170 GO SUB P: LET T=2: LET J=1
9180 PAUSE 2: LET G=3: LET H=0:
  IF F-T>=17 THEN LET J=J+18: GO T
  O 9200
9190 LET J=F
9200 LET K=PEEK 23376+256*PEEK 2
  3377: FOR /T TO J
9210 PRINT AT G,0;E$(A, TO 10);T
  AB 11;K$(1+CODE E$(A,11));TAB 17
  ;E$(A,12 TO 26): LET G=G+1: IF H
  THEN RETURN

```



```

9220 NEXT : GO SUB 9260: GO SUB
9110
9230 IF A-1<=F THEN LET T=A
9240 GO TO VAL "9180"
9250 GO SUB P: PRINT #0;"INSERT
SOURCE DISK INTO DRIVE >";B;"
PRESS ENTER TO MOVE DATA ";
PAUSE 0: LET L$=E$(A, TO C): GO
TO VAL "9250"+CODE E$(A,C+I)+I
9251 MOVE /L$ TO S: RANDOMIZE US
R E: RETURN
9252 MOVE /L$ DATA TO S: RANDOMI
ZE USR E: RETURN
9253 MOVE /L$ DATA $ TO S: RANDO
MIZE USR E: RETURN
9254 MOVE /L$CODE TO S: RANDOMIZ
E USR E: RETURN
9255 MOVE /L$ABS TO S: RANDOMIZE
USR E: RETURN
9256 MOVE /L$VAL TO S: RANDOMIZE
USR E: RETURN
9260 POKE 23376,K-256*INT (K/256
): POKE 23377,INT (K/256): RETUR
N
9270 PRINT AT 1,27;"      ";AT 1,2
7;CODE A$(179,5)*5;"K": RETURN
9500 REM INITIALIZE PROGRAM WITH
"RUN 9500" THEN
DELETE LINE 9500 TO END
UNLESS ENTERED IN THE
TIMEX MODE.
9510 RESTORE 9520: FOR X=26715 T
O 26715+84: READ B: POKE X,B: NE
XT X: POKE 26711,0
9520 DATA 205,10,0,42,75,92,17,1
4,0,25,235,33,32,38,1,212,13,237
,176,33,16,38,14,16,237,176,229,
235,17,4,0,25,235,33,0,38,14,16,
237,176,225,17,20,0,62,128,190,4
0,4,3,25,48,249,42,75,92,17,42,0
,25,34,80,91,223,42,75,92,17,32,
14,25,17,16,38,1,16,0,205,10,0,2
37,176,205,142,10,223
9530 DELETE 9500,
9540 REM CHANGE 26715 IN LINE
9510 TO 23760 TO 23760
+84 IF ENTERED IN THE
SINCLAIR MODE, ALSO
OMIT LINE 9530

```

Enter the program with the 2068 in the TIMEX mode if possible, since this mode supports the delete necessary to delete lines 9500 to end. The program will work in either mode ones saved and reloaded to be used. Needless to say, the program will work only with Safe DOS or SDOS as I prefer.

Here now the instructions to run the LIBRARY program.

Ones typed into the computer and initialized, save the program to disk, using;
 CLEAR: SAVE/"LIBRARY" LINE 20
 Reset or NEW your computer, and enter;10 LOAD/"LIBRARY", save this

line to file 0, unless you elect to keep the LIBRARY program on a disk with other programs. Keeping it on a disk by itself will allow you to just type LOAD & ENTER to load it.

Version 1.4 has a few features the previous published program does not have, besides it has been debugged, but perhaps some more will surface as time goes on. Let me know if you find any.

Sorry about the basic sort in the program, but as soon as time permits I will write a machine code portion for it, like I said before, have a cup of coffee while it sorts in the meantime. Now a view hints on how it works!

Upon running, the program will ask you if you like to start a new file or like to load an existing one. Naturally you have to start a new one first, so press "1". Enter the number of entries you wish to make to the file next, keep in mind that when in the TIMEX MODE you won't have the luxury of having as much memory available as in the SPECTRUM MODE, it may be best to use a maximum of 800 files, since you may like to load a program while in the TIMEX MODE.

Having reached the MAIN MENU, you will see all the options available to you. Insert a disk into a drive and press option "3" to enter the files on that disk to the LIBRARY. Always scroll through the files when the program catalogs your disk, and follow the prompts.

The program should have returned you to the MAIN MENU now, where you will see the number of files you have entered just above the bottom line. Press "1" at this time and then press ENTER again. You will now get a listing of all the files you have entered. Pressing any key will permit you to scroll through the files with an inverted cursor,

pressing ENTER will load the program at the cursor position from the named disk. Pressing "1" will page through the files should you have more than 19 files in the LIBRARY, but lets get back to the MAIN MENU pressing the "0" key. Lets add a few more disks to the LIBRARY at this time.

I should mention that after pressing the "1" key, you have the option to use the search function and are able to load the searched program after inserting the named disk.

Try deleting a file after you have loaded it, or try the update a disk feature to get the feel for it now. Options "5" and "6".

Do you have a disk which has a funny name, like "test" and you always wanted to change that name? Yes you may do so now, using feature "2". This feature will not only change the disk name in the LIBRARY, but will also change the DISK NAME on the DISK (SDOS version 2. & up). Have the DISK to be changed in a drive and the LIBRARY FILE present at the same time, this will prevent confusion in your listings at a future time.

Lets see how fast a basic sort is next. Press "6" and watch the blinkenlight on John's board if you have nothing better to do. Believe it, this is the fastest sort there is in basic for this particular purpose, yes I tried a few others, but this one beats them all. Having close to 800 files in the LIBRARY and using the sort then, should really warm up the chips in your computer, so much for basic. Sorted listings let you find things a lot easier on a print out, but it will be better to have unsorted files to create a new disk from the LIBRARY since some programs have basic, screenfile and code to be moved, having different names for each.

If you have a printer hooked up

and dont mind waisting some paper, press "8" now, and see what a printout looks like, but before, if you do not have have an EPSON type printer, check the printer codes on line 8030, don't worry about breaking into the program, "GO TO MENU" or "GO TO 50" will get you back to the MENU, but never use RUN, this will of course wipe out all the data. Change the printer codes on line 8030 if needed, consulting your printer manual of course. Also change the "LET/P=0/G" to whatever you have used in the past.

Next find a new disk, and press the "9" key. First, you will be able to format this new disk, but if you have a formatted disk ready, or like to MOVE some files to a disk which already has some files on it, then just press ENTER to skip the format option. The destination DISK will be cataloged next, this will read the destination disk for the amount of disk space available on the disk, which will be constantly updated and displayed above the listings, this will make life easier.

You should see a listing of all your files next. Yes this is the same routine as the file 0 menu loader, one exception, pressing the ENTER key will MOVE the file at the cursor from the SOURCE drive to the DESTINATION drive now.

Just follow the prompts when using this function, make sure though, you always insert the appropriate disk into the source drive, otherwise you will get an error report. Typing "GO TO MENU" will get you back to the menu if this happens, or you may try using "CONTINUE" after inserting the correct disk, this should work, something I have not tried at this time.

Function "7" will of course allow you to save a LIBRARY FILE to disk, or allow you to load another FILE into the program.

